MACHINE LEARNING

Answers-

1-A) Least Square Error**.**

2-A) Linear regression is sensitive to

3-B) Negative

4-B) Correlation

5-C) Low bias and high variance

6-B) Predictive model

7-D) Regularization

8-D) SMOTE

9-A) TPR and FPR

10-A) True

11-A) Construction bag of words from an email

12-A) We don't have to choose the learning rate

13-Regularization is a technique used to reduce errors by fitting the function appropriately on the given training set and avoiding overfitting. It is a process that changes the result answer to be "simpler" and often used to obtain results for ill-posed problems or to prevent overfitting.

14-Particular algorithms are used for regularization are There are three main regularization techniques, namely:

- Ridge Regression (L2 Norm)
- Lasso (L1 Norm)
- Dropout

15-In linear regression, the error term explains why all the y values do not lie perfectly on the regression line. Linear regression most often uses mean-square error (MSE) to calculate the error of the model.
MSE is calculated by measuring the distance of the observed y-values from the predicted y-values at each value of x; squaring each of these distances; calculating the mean of each of the squared distances.

Python worksheet 1

Answers-

1-C) %
2-B) 0
3-C) 24
4-A) 2

5-D) 6
6-C) the finally block will be executed no matter if the try block raises an error or not.
7-A) It is used to raise an exception.
8-C) in defining a generator
9-A) abc C) abc2
10-A) yield B) raise